

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Application Number	10/716,595
Filing Date	November 20, 2003
First Named Inventor	Michael Farmwald
Art Unit	2818
Examiner Name	Unassigned

Sheet	1	of	1	Attorney Docket Number	57941.000062
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**OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION	
			YES	NO
/TN/		Invalidity argument materials of potential licensee relating to claim 1 of U.S. Patent No. 6,034,918, which is related to present U.S. Patent Application No. 10/716,595 by virtue of the fact that both claim priority to U.S. Patent Application No. 07/510,898 (now abandoned), citing J.L. Rodengen, The Legend of Amdahl, Write Stuff Syndicate, Inc., 2000, and FACOM M-780, Operating Manual, including two separate English language translations thereof.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
/TN/		Invalidity argument materials of potential licensee relating to claim 23 of U.S. Patent No. 6,038,195, to which present U.S. Patent Application No. 10/716,595 claims priority and is related by virtue of the fact that both claim priority to U.S. Patent Application No. 07/510,898 (now abandoned), citing J.L. Rodengen, The Legend of Amdahl, Write Stuff Syndicate, Inc., 2000, and FACOM M-780, Operating Manual, including two separate English language translations thereof.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
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			<input type="checkbox"/>	<input type="checkbox"/>

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DATE CONSIDERED 06/01/2007

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**Complete if Known**

Application Number	10/716,595
Filing Date	November 20, 2003
First Named Inventor	Michael Farmwald, et al.
Group Art Unit	2827
Examiner Name	Tan Nguyen
Attorney Docket Number	57941.000062

*(use as many sheets as necessary)*

Sheet	1	of	1
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[illegible][illegible]

/Tan Nguyen/

06/01/2007

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

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<b>Application Number</b>	<b>10/716,595</b>
<b>Filing Date</b>	<b>November 20, 2003</b>
<b>First Named Inventor</b>	<b>Michael Farnwald</b>
<b>Art Unit</b>	<b>2827</b>
<b>Examiner Name</b>	<b>Tan Nguyen</b>
<b>Attorney Docket Number</b>	<b>57941.000062</b>

Sheet **1 of 18**

## **U.S. PATENT DOCUMENTS**

*Examiner Initials	Cite No.	DOCUMENT NUMBER Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/TN/	1.	US- 3,633,166	01-04-1972	Picard	
	2.	US- 3,740,723	06-19-1973	Beausoleil, et al.	
	3.	US- 3,758,761	09-11-1973	Henrion	
	4.	US- 3,882,470	05-06-1975	Hunter	
	5.	US- 3,924,241	12-02-1975	Kronies	
	6.	US- 3,972,028	07-27-1976	Weber, et al.	
	7.	US- 3,975,714	08-17-1976	Weber, et al.	
	8.	US- 3,983,537	09-28-1976	Parsons, et al.	
	9.	US- 4,007,452	02-08-1977	Hoff, Jr.	
	10.	US- 4,038,648	07-26-1977	Chesley	
	11.	US- 4,047,246	09-06-1977	Kerllenevich, et al.	
	12.	US- 4,048,673	09-13-1977	Hendrie, et al.	
	13.	US- 4,191,996	03-04-1980	Chesley	
	14.	US- 4,231,104	10-28-1980	St. Clair	
	15.	US- 4,234,934	11-18-1980	Thorsrud	
	16.	US- 4,249,247	02-03-1981	Patel	
	17.	US- 4,263,650	04-21-1981	Bennett, et al.	
	18.	US- 4,286,321	08-25-1981	Baker, et al.	
	19.	US- 4,306,298	12-15-1981	McElroy	
	20.	US- 4,322,635	03-30-1982	Redwine	
↓	21.	US- 4,333,142	06-01-1982	Chesley	
	22.	US- 4,337,523	06-29-1982	Hotta, et al.	
/TN/	23.	US- 4,354,258	10-12-1982	Sato	

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		<b>Application Number</b> 10/716,595	
		<b>Filing Date</b> November 20, 2003	
		<b>First Named Inventor</b> Michael Farnwald	
		<b>Art Unit</b> 2827	
		<b>Examiner Name</b> Tan Nguyen	
<b>Sheet</b>	<b>2 of 18</b>	<b>Attorney Docket Number</b> 57941.000062	

U.S. PATENT DOCUMENTS					
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/TN/	24.	US- 4,355,376	10-19-1982	Gould	
	25.	US- 4,373,183	02-08-1983	Means, et al.	
	26.	US- 4,375,665	03-01-1983	Schmidt	
	27.	US- 4,385,350	05-24-1983	Hansen, et al.	
	28.	US- 4,435,762	03-06-1984	Milligan, et al.	
	29.	US- 4,443,864	04-17-1984	McElroy	
	30.	US- 4,449,207	05-15-1984	Kung, et al.	
	31.	US- 4,466,127	08-14-1984	Ohgishi, et al.	
	32.	US- 4,468,738	08-28-1984	Hansen, et al.	
	33.	US- 4,470,114	09-04-1984	Gerhold	
	34.	US- 4,481,625	11-06-1984	Roberts, et al.	
	35.	US- 4,481,647	11-06-1984	Gombert, et al.	
	36.	US- 4,482,999	11-13-1984	Janson, et al.	
	37.	US- 4,488,218	12-11-1984	Grimes	
	38.	US- 4,494,186	01-15-1985	Goss, et al.	
	39.	US- 4,500,905	02-19-1985	Shibata	
	40.	US- 4,513,370	04-23-1985	Ziu, et al.	
	41.	US- 4,513,374	04-23-1985	Hooks, Jr.	
	42.	US- 4,528,661	07-09-1985	Bahr, et al.	
	43.	US- 4,566,098	01-21-1986	Gammage, et al.	
	44.	US- 4,566,099	01-21-1986	Magerl	
	45.	US- 4,571,672	02-18-1986	Hatada, et al.	
/TN/	46.	US- 4,849,937	07-18-1989	Yoshimoto	

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		<b>Filing Date</b>	<b>November 20, 2003</b>
		<b>First Named Inventor</b>	<b>Michael Farmwald</b>
		<b>Art Unit</b>	<b>2827</b>
		<b>Examiner Name</b>	<b>Tan Nguyen</b>
<b>Sheet</b>	<b>3 of 18</b>	<b>Attorney Docket Number</b>	<b>57941.000062</b>

**U.S. PATENT DOCUMENTS**

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/TN/	47.	US- 4,586,167	04-29-1986	Fujishima, et al.	
	48.	US- 4,589,108	05-13-1986	Billy	
	49.	US- 4,595,923	06-17-1986	McFarland, Jr.	
	50.	US- 4,608,700	08-26-1986	Kirtley, Jr., et al.	
	51.	US- 4,616,268	10-07-1986	Shida	
	52.	US- 4,625,307	11-25-1986	Tulpule, et al.	
	53.	US- 4,633,735	01-06-1987	Sakurai, et al.	
	54.	US- 4,635,192	01-06-1987	Ceccon, et al.	
	55.	US- 4,636,986	01-13-1987	Pinkham	
	56.	US- 4,646,270	02-24-1987	Voss	
	57.	US- 4,649,516	03-10-1987	Chung, et al.	
	58.	US- 4,654,655	03-31-1987	Kowalski	
	59.	US- 4,656,605	04-07-1987	Clayton	
	60.	US- 4,660,141	04-21-1987	Ceccon, et al.	
	61.	US- 4,672,470	06-09-1987	Morimoto, et al.	
	62.	US- 4,675,813	06-23-1987	Locke	
	63.	US- 4,706,166	11-10-1987	Go	
	64.	US- 4,719,505	01-12-1988	Katznelson	
	65.	US- 4,719,602	01-12-1988	Hag, et al.	
	66.	US- 4,719,627	01-12-1988	Peterson, et al.	
↓	67.	US- 4,745,548	05-17-1988	Blahut	
	68.	US- 4,748,617	05-31-1988	Drewlo	
/TN/	69.	US- 4,750,839	06-14-1988	Wang, et al.	

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		<b>Filing Date</b> <b>November 20, 2003</b>	
		<b>First Named Inventor</b> <b>Michael Farmwald</b>	
		<b>Art Unit</b> <b>2827</b>	
		<b>Examiner Name</b> <b>Tan Nguyen</b>	
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<b>U.S. PATENT DOCUMENTS</b>					
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/TN/	70.	US- 4,761,799	08-02-1988	Arragon	
	71.	US- 4,764,846	08-16-1988	Go	
	72.	US- 4,770,640	09-13-1988	Walter	
	73.	US- 4,775,931	10-04-1988	Dickie, et al.	
	74.	US- 4,779,089	10-18-1988	Theus	
	75.	US- 4,785,396	11-15-1988	Murphy, et al.	
	76.	US- 4,803,621	02-07-1989	Kelly	
	77.	US- 4,818,985	04-04-1989	Ikeda	
	78.	US- 4,825,416	04-25-1989	Tam, et al.	
	79.	US- 4,831,338	05-16-1989	Yamaguchi	
	80.	US- 4,835,674	05-30-1989	Collins, et al.	
	81.	US- 4,837,682	06-06-1989	Culler	
	82.	US- 4,849,965	07-18-1989	Chomel, et al.	
	83.	US- 4,853,896	08-01-1989	Yamaguchi	
	84.	US- 4,858,112	08-15-1989	Puerzer, et al.	
	85.	US- 4,862,158	08-29-1989	Keller, et al.	
	86.	US- 4,870,622	09-26-1989	Aria, et al.	
	87.	US- 4,870,652	09-26-1989	Thomton	
	88.	US- 4,875,192	10-17-1989	Matsumoto	
	89.	US- 4,882,669	11-21-1989	Miura, et al.	
↓	90.	US- 4,891,791	01-02-1990	Iijima	
	91.	US- 4,920,486	04-24-1990	Nielson	
/TN/	92.	US- 4,926,385	05-15-1990	Fujishima, et al.	
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		<b>Filing Date</b> November 20, 2003	
		<b>First Named Inventor</b> Michael Farmwald	
		<b>Art Unit</b> 2827	
		<b>Examiner Name</b> Tan Nguyen	
<b>Sheet</b>	<b>5 of 18</b>	<b>Attorney Docket Number</b> 57941.000062	

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/TN/	93.	US- 4,933,835	06-12-1990	Sachs, et al.	
	94.	US- 4,937,733	06-26-1990	Gillett, Jr., et al.	
	95.	US- 4,939,510	07-03-1990	Masheff, et al.	
	96.	US- 4,940,909	07-10-1990	Mulder, et al.	
	97.	US- 4,945,471	07-31-1990	Neches	
	98.	US- 4,945,516	07-31-1990	Kashiyama	
	99.	US- 4,947,484	08-07-1990	Twitty, et al.	
	100.	US- 4,949,301	08-14-1990	Joshi, et al.	
	101.	US- 4,954,992	09-04-1990	Kumanoya, et al.	
	102.	US- 4,965,792	10-23-1990	Yano	
	103.	US- 4,975,763	12-04-1990	Baudouin, et al.	
	104.	US- 4,982,400	01-01-1991	Ebersole	
	105.	US- 4,998,069	03-05-1991	Nguyen, et al.	
	106.	US- 5,009,481	04-23-1991	Kinoshita, et al.	
	107.	US- 5,012,408	04-30-1991	Conroy	
	108.	US- 5,023,488	06-11-1991	Gunning	
	109.	US- 5,034,964	07-23-1991	Khan, et al.	
	110.	US- 5,038,317	08-06-1991	Callan, et al.	
	111.	US- 5,038,320	08-06-1991	Heath, et al.	
	112.	US- 5,056,060	10-08-1991	Fitch, et al.	
V	113.	US- 5,063,561	11-05-1991	Crandall, et al.	
	114.	US- 5,077,693	12-31-1991	Hardee, et al.	
/TN/	115.	US- 4,941,128	07-10-1990	Wada, et al.	
<b>EXAMINER SIGNATURE</b> /Tan Nguyen/				<b>DATE CONSIDERED</b> 05/31/2007	
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		<b>Filing Date</b> November 20, 2003	
		<b>First Named Inventor</b> Michael Farmwald	
		<b>Art Unit</b> 2827	
		<b>Examiner Name</b> Tan Nguyen	
<b>Sheet</b>	<b>6 of 18</b>	<b>Attorney Docket Number</b> 57941.000062	

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/TN/	116.	US- 5,083,260	01-21-1992	Tsuchiya	
	117.	US- 5,083,296	01-21-1992	Hara, et al.	
	118.	US- 5,093,807	03-03-1992	Hashimoto, et al.	
	119.	US- 5,107,491	04-21-1992	Chew	
	120.	US- 5,111,423	05-05-1992	Kopec, Jr., et al.	
	121.	US- 5,111,464	05-05-1992	Farmwald, et al.	
	122.	US- 5,117,494	05-26-1992	Costes, et al.	
	123.	US- 5,121,382	06-09-1992	Yang, et al.	
	124.	US- 5,129,069	07-07-1992	Helm, et al.	
	125.	US- 5,142,376	08-25-1992	Ogura	
	126.	US- 5,175,831	12-29-1992	Kumar	
	127.	US- 5,175,835	12-29-1992	Beighe, et al.	
	128.	US- 5,179,670	01-12-1993	Farmwald, et al.	
	129.	US- 5,193,149	03-09-1993	Awiszio, et al.	
	130.	US- 5,193,193	03-09-1993	Iyer	
	131.	US- 5,193,199	03-09-1993	Dalrymple, et al.	
	132.	US- 5,220,673	06-15-1993	Dalrymple, et al.	
	133.	US- 5,226,009	07-06-1993	Arimoto	
	134.	US- 5,247,518	09-21-1993	Takiyasu, et al.	
	135.	US- 5,317,723	05-31-1994	Heap, et al.	
	136.	US- 5,371,892	12-06-1994	Petersen, et al.	
	137.	US- 5,390,149	02-14-1995	Vogley, et al.	
/TN/	138.	US- 5,452,420	09-19-1995	Engdahl, et al.	

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		<b>First Named Inventor</b>	<b>Michael Farmwald</b>
		<b>Art Unit</b>	<b>2827</b>
		<b>Examiner Name</b>	<b>Tan Nguyen</b>
<b>Sheet</b>	<b>7 of 18</b>	<b>Attorney Docket Number</b>	<b>57941.000062</b>

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/TN/	139.	US- 5,513,327	04-30-1996	Farmwald, et al.	
	140.	US- 5,847,997	12-08-1998	Harada, et al.	
	141.	US- 6,032,214	02-29-2000	Farmwald, et al.	
	142.	US- 6,034,918	03-07-2000	Farmwald, et al.	
	143.	US- 6,038,195	03-14-2000	Farmwald, et al.	
	144.	US- 4,817,058	03-28-1989	Pinkham	
	145.	US- 4,805,198	02-14-1989	Stern, et al.	
	146.	US- 4,535,427	08-13-1985	Jiang	
	147.	US- 4,882,710	11-21-1989	Hashimoto, et al.	
	148.	US- 5,546,346	08-13-1996	Agata, et al.	
	149.	US- 4,629,909	12-16-1986	Cameron	
	150.	US- 5,142,637	08-25-1992	Harlin, et al.	
	151.	US- 4,607,173	08-19-1986	Knoedl, Jr.	
	152.	US- 4,445,204	04-24-1984	Nishiguchi	
	153.	US- 4,597,019	06-24-1986	Nishimoto, et al.	
	154.	US- 4,412,286	10-25-1983	O'Dowd	
	155.	US- 4,882,712	11-21-1989	Ohno, et al.	
	156.	US- 4,628,489	10-09-1986	Ong, et al.	
	157.	US- 4,481,572	11-06-1984	Oschner	
	158.	US- 5,590,086	12-31-1996	Park, et al.	
	159.	US- 5,835,956	11-10-1998	Park, et al.	
↓	160.	US- 4,338,569	07-06-1982	Petrich	
/TN/	161.	US- 3,967,206	06-29-1976	Roberson, et al.	

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DATE CONSIDERED 05/31/2007

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**Application Number**

**10/716,595**

**Filing Date****November 20, 2003****First Named Inventor****Michael Farnwald**

### Art Unit

2827

**Examiner Name**

**Tan Nguyen**

**Sheet**

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Attorney Docket Number

**57941.000062**

## U.S. PATENT DOCUMENTS

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**EXAMINER SIGNATURE**

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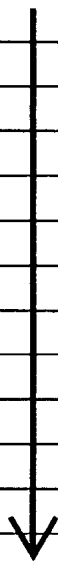
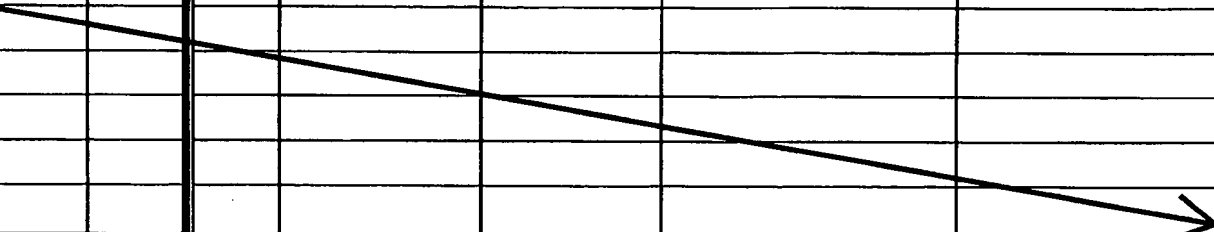
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		<b>Application Number</b>	<b>10/716,595</b>
		<b>Filing Date</b>	<b>November 20, 2003</b>
		<b>First Named Inventor</b>	<b>Michael Farmwald</b>
		<b>Art Unit</b>	<b>2827</b>
		<b>Examiner Name</b>	<b>Tan Nguyen</b>
<b>Sheet</b>	<b>9 of 18</b>	<b>Attorney Docket Number</b>	<b>57941.000062</b>

**FOREIGN PATENT DOCUMENTS**

*Examiner Initial	Cite No.	FOREIGN PATENT DOCUMENT		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	TRANSLATION	
		Country Code Number-Kind Code (if known)					YES	NO
/TN/	165.	JP	S56-047996	04-30-1981	Yoshida		<input type="checkbox"/>	<input type="checkbox"/>
	166.	EP	0 339 224	11-02-1989	Bowater, et al.		<input type="checkbox"/>	<input type="checkbox"/>
	167.	GB	2 201 569	09-01-1988	Currie		<input type="checkbox"/>	<input type="checkbox"/>
	168.	JP	S62-51387	03-06-1987	Hirahata, et al.		<input type="checkbox"/>	<input type="checkbox"/>
	169.	JP	S63-244389	10-11-1988	Horiguchi		<input type="checkbox"/>	<input type="checkbox"/>
	170.	JP	S57-210495	12-24-1982	Inagaki		<input type="checkbox"/>	<input type="checkbox"/>
	171.	JP	H03-076094	04-02-1991	Ishikawa		<input type="checkbox"/>	<input type="checkbox"/>
	172.	DE	37 42 487	07-07-1988	Kawai, et al.		<input type="checkbox"/>	<input type="checkbox"/>
	173.	JP	01-284132	11-15-1989	Kosugi, et al.		<input type="checkbox"/>	<input type="checkbox"/>
	174.	WO	89/06013	06-29-1989	Litaize, et al.		<input type="checkbox"/>	<input type="checkbox"/>
	175.	JP	H1-271861	10-30-1989	Shirae		<input type="checkbox"/>	<input type="checkbox"/>
	176.	JP	J1-232597	09-18-1989	Suzuki		<input type="checkbox"/>	<input type="checkbox"/>
	177.	JP	62-51093	03-05-1987	Takashi, et al.		<input type="checkbox"/>	<input type="checkbox"/>
/TN/	178.	JP	S61-220193	09-30-1986	Tetsuo		<input type="checkbox"/>	<input type="checkbox"/>
	179.	EP	1 640 847	03-29-2006	Farmwald		<input type="checkbox"/>	<input type="checkbox"/>
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		<b>Filing Date</b>	November 20, 2003
		<b>First Named Inventor</b>	Michael Farnwald
		<b>Art Unit</b>	2827
		<b>Examiner Name</b>	Tan Nguyen
<b>Sheet</b>	10 of 18	<b>Attorney Docket Number</b>	57941.000062

**OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION	
			YES	NO
/TN/	180.	"High Speed CMOS Databook", Integrated Device Technology Inc., Santa Clara, CA, pg. 9-1 to 9-14, 1988.	<input type="checkbox"/>	<input type="checkbox"/>
	181.	A. Agarwal, et al., "An Analytical Cache Model", ACM Trans. on Comp. Sys., Vol. 7, No. 2, pg. 184-215, May 1989.	<input type="checkbox"/>	<input type="checkbox"/>
	182.	A. Agarwal, et al., "An Evaluation of Directory Schemes for Cache Conference", IEEE, 15 <sup>th</sup> Intern Symp. Comp. Architecture, pg. 280-289, June 1988.	<input type="checkbox"/>	<input type="checkbox"/>
	183.	A. Khan, "What's the Best Way to Minimize Memory Traffic", High Performance Systems, pg. 59-67, September 1989.	<input type="checkbox"/>	<input type="checkbox"/>
	184.	B. Wooley, et al., "Active Substrate System Integration", IEEE, Proceedings 1987 IEEE International Conference on Computer Design: VLSI in Computers & Processors, Rye Brook, New York, October 5, 1987.	<input type="checkbox"/>	<input type="checkbox"/>
	185.	Takai, et al., "250 Mbyte/sec Synchronous DRAM Using a 3-Stage Pipelined Architecture", 1993 Symposium on VLSI Circuits, Digest of Technical Papers, pg. 59-60, May 19-21, 1993.	<input type="checkbox"/>	<input type="checkbox"/>
	186.	Beresford, "How to Tame High Speed Design", High-Performance Systems, pg. 78-83, September 1985.	<input type="checkbox"/>	<input type="checkbox"/>
	187.	Boysel, et al., "Four-Phase LSI Logic Offers New Approach to Computer Designer", Four-Phase Systems Inc. Cupertino, CA, Computer Design, April 1970, pg. 141-146.	<input type="checkbox"/>	<input type="checkbox"/>
	188.	Boysel, et al., "Random Access MOS Memory Packs More Bits to the Chip", Electronics, February 16, 1970, pg. 109-146.	<input type="checkbox"/>	<input type="checkbox"/>
↓	189.	D. Hawley, "Superfast Bus Supports Sophisticated Transactions", High Performance Systems, pg. 90-94, September 1989. E. Davidson, "Electrical Design of a High Speed Computer Package", IBM J. Res. Develop., Vol. 26, No. 3, pg. 349-361, May 1982.	<input type="checkbox"/>	<input type="checkbox"/>
/TN/	190.	E. Davidson, "Electrical Design of a High Speed Computer Package", IBM J. Res. Develop., Vol. 26, No. 3, pg. 349-361, May 1982.	<input type="checkbox"/>	<input type="checkbox"/>

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		<b>Filing Date</b> November 20, 2003	
		<b>First Named Inventor</b> Michael Farmwald	
		<b>Art Unit</b> 2827	
		<b>Examiner Name</b> Tan Nguyen	
<b>Sheet</b>	<b>11 of 18</b>	<b>Attorney Docket Number</b> 57941.000062	

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			YES	NO
/TN/	191.	F. Hart, "Multiple Chips Speed CPU Subsystems", High-Performance Systems, Pg. 46-55, September 1989.	<input type="checkbox"/>	<input type="checkbox"/>
	192.	G. Chesley, "Virtual Memory Integration", Submitted to IEETC, September 1983.	<input type="checkbox"/>	<input type="checkbox"/>
	193.	G. L. Dix, et al., "Common Chips for Use in Disk and Diskette Controllers", IBM J. Res. Develop., Vol. 26, No. 4, July 1982, pg. 440-445.	<input type="checkbox"/>	<input type="checkbox"/>
	194.	Grover, et al., "Precision Time-Transfer in Transport Networks Using Digital Crossconnect Systems", IEEE Paper 47.2 Globecom, 1988, pg. 1544-1548.	<input type="checkbox"/>	<input type="checkbox"/>
	195.	H. Schumacher, "CMOS Subnanosecond True-ECL Output Buffer", IEEE Journal of Solid-State Circuits, Vol. 25, No. 1, pg. 150-154, February 1990.	<input type="checkbox"/>	<input type="checkbox"/>
	196.	Hansen, et al., "A RISC Microprocessor with Integral MMU and Cache Interface", MIPS Computer Systems, Sunnyvale, CA, IEEE 1986, pg. 145-148.	<input type="checkbox"/>	<input type="checkbox"/>
	197.	International Search Report dated July 8, 1991 for PCT Patent Application No. PCT/US91/0250 filed April 16, 1991.	<input type="checkbox"/>	<input type="checkbox"/>
	198.	J. Carson, et al., "Advanced On-Focal Plane Signal Processing for Non-Planar Infrared Mosaics", SPIE, Vol. 311, pg. 53-58, 1981.	<input type="checkbox"/>	<input type="checkbox"/>
	199.	J. Chun, et al., "A 1.2ns GaAs 4K Read Only Memory", IEEE Gallium Arsenide Integrated Circuit Symposium Technical Digest, pg. 83-86, November 1988.	<input type="checkbox"/>	<input type="checkbox"/>
V	200.	J. Frisone, "A Classification for Serial Loop Data Communications Systems", Raleigh Patent Operations, November 2, 1972.	<input type="checkbox"/>	<input type="checkbox"/>
/TN/	201.	J. Peterson, "System-Level Concerns Set Performance Gains", High-Performance Systems, pg. 71-77, September 1989.	<input type="checkbox"/>	<input type="checkbox"/>

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Substitute for form 1449/PTO		<b>Application Number</b>	<b>10/716,595</b>
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		<b>Filing Date</b>	<b>November 20, 2003</b>
		<b>First Named Inventor</b>	<b>Michael Farnwald</b>
		<b>Art Unit</b>	<b>2827</b>
		<b>Examiner Name</b>	<b>Tan Nguyen</b>
<b>Sheet</b>	<b>12 of 18</b>	<b>Attorney Docket Number</b>	<b>57941.000062</b>

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			YES	NO
/TN/	202.	J. Sonntag, et al., "A Monolithic CMOS 10MHz DLL for Burst-Mode Data Retiming", IEEE International Solid-State Circuits Conference (ISSCC), February 16, 1990.	<input type="checkbox"/>	<input type="checkbox"/>
	203.	Knut Alnes, "Scalable Coherent Interface", SCI--Fweb.89--doc52, (To Appear in Eurobus Conference Proceedings May 1989, pg. 1-8.	<input type="checkbox"/>	<input type="checkbox"/>
	204.	Knut Alnes, "SCI: A proposal for SCI Operation", SCI--Jan. 6, 1989--doc31, Norsk Data, Oslo, Norway, pg. 1-24, January 6, 1989.	<input type="checkbox"/>	<input type="checkbox"/>
	205.	M.Bazes, et al., "A Programmable NMOS DRAM Controller for Microcomputer Systems with Dual-Port Memory and Error Checking and Correction", IEEE Journal of Solid State Circuits, Vol. SC-18, No. 2, pg. 164-172, April 1983.	<input type="checkbox"/>	<input type="checkbox"/>
	206.	Moussouris, et al., "A CMOS Processor with Integrated Systems Functions", MIPS Computer Systems, Sunnyvale, CA, IEEE 1986, pg. 126-130.	<input type="checkbox"/>	<input type="checkbox"/>
	207.	Moussouris, J., "The Advanced Systems Outlook-Life Beyond RISC: The Next 30 Years in High-Performance Computing", Computer Letter, July 31, 1989 (an edited excerpt from an address at the fourth annual conference on the Advanced Systems Outlook, in San Francisco, CA (June 5)).	<input type="checkbox"/>	<input type="checkbox"/>
	208.	N. Margulis, "Single Chip RISC CPU Eases Single Chip System Design", High Performance Systems, pg. 34-36, 40-41, and 44, September 1989.	<input type="checkbox"/>	<input type="checkbox"/>
	209.	R. L. Schmidt, "A Memory Control Chip for Formatting Data into Block Suitable for Video Coding Applications", IEEE Transactions on Circuits and Systems, Vol. 36, No. 10, pg. 1275-1280, October 1989.	<input type="checkbox"/>	<input type="checkbox"/>
↓	210.	R. Matick, "Comparison of Memory Chip Organizations vs. Reliability in Virtual Memories", FTCS 12 <sup>th</sup> Annual International Symposium Fault-Tolerant Committee, pg. 223-227, June 22, 1984.	<input type="checkbox"/>	<input type="checkbox"/>
/TN/	211.	R. Pease, et al., "Physical Limits to the Useful Packaging Density of Electronic Systems", Standard Center for Integrated Systems, Stanford University, September 1988.	<input type="checkbox"/>	<input type="checkbox"/>

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		<b>Filing Date</b> <b>November 20, 2003</b>		
		<b>First Named Inventor</b> <b>Michael Farnwald</b>		
		<b>Art Unit</b> <b>2827</b>		
		<b>Examiner Name</b> <b>Tan Nguyen</b>		
<b>Sheet</b>	<b>13 of 18</b>	<b>Attorney Docket Number</b> <b>57941.000062</b>		
<b>OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS</b>				
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			YES	NO
/TN/	212.	T. Riordan, "MIPS R2000 Processor Interface 78-00005(C)", MIPS Computer Systems, Sunnyvale, CA, June 30, 1987, pg. 1-83.	<input type="checkbox"/>	<input type="checkbox"/>
	213.	S. Kwon, et al., "Memory Chip Organizations for Improved Reliability in Virtual Memories" IBM Technical Disclosure Bulletin, Vol. 25, No. 6, pg. 2952-2957, Nov. 1982.	<input type="checkbox"/>	<input type="checkbox"/>
	214.	S. Watanabe, et al., "An Experimental 16Mbit Cmos Dram Chip with a 100-MHz Serial Read/Write Mode", IEEE Journal of Solid State Circuits, Vol. 24, No. 3, pg. 763-770, June 1982.	<input type="checkbox"/>	<input type="checkbox"/>
	215.	T. Yang, et al., "A 4-ns 4Kx1-bit Two-Port BiCMOS SRAM", IEEE Journal of Solid-State Circuits, Vol. 23, No. 5, pg. 1030-1040, October 1988.	<input type="checkbox"/>	<input type="checkbox"/>
	216.	European Search Report dated April 13, 2006 for European Patent Application No. 05026720.2 filed April 16, 1991.	<input type="checkbox"/>	<input type="checkbox"/>
	217.	Saito, Shozo; Fujii, Syuso; Okoda, Yoshio; Sawada, Shizuo; Shinozaki, Satoshi; Natori, Kenji; Ozawa, Osamu, "A 1-Mbit CMOS DRAM with Fast Page Mode and Static Column Mode," IEEE Journal of Solid-State Circuits, Vol. SC-20, No. 5 (Oct 1985), pp. 903-908.	<input type="checkbox"/>	<input type="checkbox"/>
	218.	Fuji, Syuso; Ogihara, Masaki; Shimizu, Mitsuru; Yoshida, Munehiro; Numata, Kenji; Hara, Takahiko; Watanabe, Shigeyoshi; Sawada, Shizuo; Mizuno, Tomohisa; Kumagi, Junpei; Yoshikawa, Susumu; Kaki, Seiji; Saito, Yoshikazu; Aochi, Hideaki; Hamamot, Takeshi; Toita, Koichi, "A 45-ns 16-Mbit DRAM with Triple-Well Structure," IEEE Journal of Solid-State Circuits, Vol. 24, No. 5 (Oct 1989), pp. 1170-1175.	<input type="checkbox"/>	<input type="checkbox"/>
	219.	Martino, William L. Jr.; Moench, Jerry D.; Bormann, Alan R.; Tesch, Rodney C., "An On-Chip Back-Bias Generator for MOS Dynamic Memory," IEEE Journal of Solid-State Circuits, Vol. SC-15, No. 5 (Oct 1980), pp. 820-826.	<input type="checkbox"/>	<input type="checkbox"/>
✓	220.	Intel iAPX43202 VLSI Interface Processor Data Sheet, Intel Publication Number 171874-001 Rev. A (Intel, 1981).	<input type="checkbox"/>	<input type="checkbox"/>
/TN/	221.	Baba, Fumio, Mochizuki, Hirohiko; Yabu, Takashi; Shirai, Kazunari; Miyasaka, Kiyoshi, "A 64-K DRAM with 35 ns Static Column Operation," IEEE Journal of Solid-State Circuits, Vol. SC-18, No. 5, (Oct 1983), pp. 447-451.	<input type="checkbox"/>	<input type="checkbox"/>
EXAMINER SIGNATURE		/Tan Nguyen/		
		DATE CONSIDERED      05/31/2007		
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<b>Examiner Name</b> Tan Nguyen		<b>Attorney Docket Number</b> 57941.000062			
<b>Sheet</b>	14 of 18				
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			YES	NO	
/TN/	222.	Miyamoto, Hiroshi; Yamagata, Tadato; Mori, Shigeru; Aono, Tetsuya; Ogoh, Ikuo; Yamada, Michihiro, "Improved Address Buffers, TTL Input Current Reduction, and Hidden Refresh Test Mode in a 4-Mb Dram," IEEE Journal of Solid-State Circuits, Vol. 25, No. 2 (April 1990), pp. 525-574.	<input type="checkbox"/>	<input type="checkbox"/>	
	223.	Ahlquist, C. Norman; Breivogel, Joseph R.; Koo, James T.; McCollum, John L.; Oldham, William g.; Renninger, Alan L., "A 16 384-Bit Dynamic Ram," IEEE Journal of Solid-State Circuits, Vol. SC-11, No. 5 (Oct 1976), pp. 570-573.	<input type="checkbox"/>	<input type="checkbox"/>	
	224.	Takashima, Daisaburo; Watanabe, Shigeyoshi; Fuse, Tsuneaki; Sunouchi, Kazumasa; Hara, Takahiko, "Low-Power On-Chip Supply Voltage Conversion Scheme for Ultrahigh-Density DRAM's," IEEE Journal of Solid-State Circuits, Vol. 28, No. 4 (April 1993), pp. 504-509.	<input type="checkbox"/>	<input type="checkbox"/>	
	225.	Natori, Kenji; Ogura, Mitsugi; Iwai, Hiroshi; Maeguchi, Kenji; Taguchi, Shinji, "A 64 kbit MOS Dynamic Random Access Memory," IEEE Journal of Solid-State Circuits, Vol. SC-14, No. 2 (April 1979), pp. 482-485	<input type="checkbox"/>	<input type="checkbox"/>	
	226.	Kalter, Howard L.; Coppens, Pierre D.; Ellis, Wayne F.; Fifield, John A.; Kokoszka, Daryl J.; Leasure, Terry L.; Miller, Christopher P.; Nguyen, Quan; Papritz, Ronald E.; Patton, Charles S.; Poplawski, J. Michael; Tomashot, Steven W.; Van Der Hoeven, Willem B., "An Experimental 80-ns 1-Mbit DRAM with Fast Page Operation," IEEE Journal of Solid-State Circuits, Vol. SC-20, No. 5 (Oct 1985), pp. 914-923	<input type="checkbox"/>	<input type="checkbox"/>	
	227.	Kawahara, Takayuki; Kawajiri, Yoshiki; Horiguchi, Masahi; Akiba, Takesada; Kitsukawa, Goro; Kure, Tokuo; Aoki, Masakazu, "A Charge Recycle Refresh for Gb-Scale DRAM's in File Applications," IEEE Journal of Solid-State Circuits, Vol. 29 (June 1994), pp. 715-722.	<input type="checkbox"/>	<input type="checkbox"/>	
	228.	Kushiyama, Natsuki; Watanabe, Yohi; Ohsawa, Takashi; Muraoka, Kazuyoshi; Nagahama, Yousei; Furuyama, Tohru, "A 12-MHz Data Cycle 4-Mb DRAM with Pipeline Operation," IEEE Journal of Solid-State Circuits, Vol. 26, No. 4 (April 1991), pp. 479-483.	<input type="checkbox"/>	<input type="checkbox"/>	
	229.	Miyamoto, Hiroshi; Yamagata, Tadato; Mori, Shigeru; Kobayashi, Toshifumi; Satoh, Shin-ichi; Yamada, Michihiro, "A Fast 256K x4 CMOS DRAM with a Distributed Sense and Unique Restore Circuit," IEEE Journal of Solid-State Circuits, Vol. SC-22, No. 5 (Oct 1987), pp. 861-867.	<input type="checkbox"/>	<input type="checkbox"/>	
/TN/	230.	Fuji, Syuso; Natori, Kenji; Furuyama, Tohru; Daito, Shozo; Toda, Haruki; Tanaka, Takeshi; Ozawa, Osamu, "A Low-Power Sub 100 ns 256K Bit Dynamic RAM," IEEE Journal of Solid-State Circuits, Vol. SC-18, No. 5 (Oct 1983), pp. 441-446.	<input type="checkbox"/>	<input type="checkbox"/>	
<b>EXAMINER SIGNATURE</b> /Tan Nguyen/			<b>DATE CONSIDERED</b> 05/31/2007		
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Substitute for form 1449/PTO**Application Number**

**10/716,595**

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(use as many sheets as necessary)*

**Filing Date****November 20, 2003****First Named Inventor**

**Michael Farnwald**

**Art Unit**

2827

**Examiner Name**

**Tan Nguyen**

**Sheet**

15 of 18

**Attorney Docket Number**

**57941.000062**

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			YES	NO
/TN/  ↓  ↓  ↓  ↓  ↓	231.	Lu, Nicky C.C.; Chao, Hu H.; Hwang, Wei; Henkels, Walter H.; Rajeevakumar, T.V.; Hanafi, Hussein I.; Terman, Lewis M.; Franch, Robert L., "A 20-ns 128-kbit X 4 High-Speed DRAM with 330-Mbit/s Data Rate," IEEE Journal of Solid-State Circuits, Vol. 23, No. 5 (Oct 1988), pp. 1140-1149.	<input type="checkbox"/>	<input type="checkbox"/>
	232.	P1596: SCI, A Scalable Coherent Interface Bus Specification Components (Nov 18, 1988).	<input type="checkbox"/>	<input type="checkbox"/>
	233.	Choi, et al., "16Mbit Synchronous DRAM with 125Mbyte/sec Data Rate", 1993 Symposium on VLSI Circuits, Digest of Technical Papers, pg. 65-66, 1993.	<input type="checkbox"/>	<input type="checkbox"/>
	234.	Ebel, et al., "A 4096-Bit High-Speed Emitter-Coupled-Logic (ECL) Compatible Random-Access Memory" IEEE Journal of Solid-State Circuits, Vol. SC-10, No.5, pg. 262-267, October 1976.	<input type="checkbox"/>	<input type="checkbox"/>
	235.	Fujiwara, et al., "A200MHz 16Mbit Synchronous DRAM with Block Access Mode", 1994 Symposium on VLSI Circuits Digest of Technical Papers, pg. 79-80, 1994.	<input type="checkbox"/>	<input type="checkbox"/>
	236.	Hatakeyama, et al., "TP 4.5: A256Mb SDRAM Using a Register-Controlled Digital DLL, IEEE ISSCC Digest of Technical Papers, February 6-8, 1997.	<input type="checkbox"/>	<input type="checkbox"/>
	237.	Intel, "refers to: iAPX432 IP Datasheet, iAPX432 GDP Datasheet, iAPX432 Manual, iAPX432 Specification (BIU), iAPX432 Specification (MCU)", 1981-1983.	<input type="checkbox"/>	<input type="checkbox"/>
	238.	Intel, "Intel iAPX432 Interconnect Architecture Reference Manual", Intel Publication No. 172487-001, December 1982.	<input type="checkbox"/>	<input type="checkbox"/>
/TN/	239.	IBM, "Range Check of an Address Counter", IBM Technical Disclosure Bulletin, pg. 2136-2137, December 1978.	<input type="checkbox"/>	<input type="checkbox"/>

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/Tan Nguyen/

DATE CONSIDERED

05/31/2007

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Substitute for form 1449/PTO  <div style="text-align: center;"> <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i> </div>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"><b>Application Number</b></td> <td><b>10/716,595</b></td> </tr> <tr> <td><b>Filing Date</b></td> <td><b>November 20, 2003</b></td> </tr> <tr> <td><b>First Named Inventor</b></td> <td><b>Michael Farmwald</b></td> </tr> <tr> <td><b>Art Unit</b></td> <td><b>2827</b></td> </tr> <tr> <td><b>Examiner Name</b></td> <td><b>Tan Nguyen</b></td> </tr> </table>		<b>Application Number</b>	<b>10/716,595</b>	<b>Filing Date</b>	<b>November 20, 2003</b>	<b>First Named Inventor</b>	<b>Michael Farmwald</b>	<b>Art Unit</b>	<b>2827</b>	<b>Examiner Name</b>	<b>Tan Nguyen</b>
<b>Application Number</b>	<b>10/716,595</b>												
<b>Filing Date</b>	<b>November 20, 2003</b>												
<b>First Named Inventor</b>	<b>Michael Farmwald</b>												
<b>Art Unit</b>	<b>2827</b>												
<b>Examiner Name</b>	<b>Tan Nguyen</b>												
<b>Sheet</b>	<b>16 of 18</b>	<b>Attorney Docket Number</b>	<b>57941.000062</b>										
<b>OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS</b>													
*Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION										
			YES	NO									
/TN/	240.	"IEEE Standard for a Simple 32-Bit Backplane Bus", ANSI/IEEE Std., pg. 1193-1987, February 24, 1988.	<input type="checkbox"/>	<input type="checkbox"/>									
↓	241.	"IEEE Standard for High-Bandwidth Memory Interface Based on Scalable Coherent Interface (SCI) Signaling Technology", IEEE Std., pg. 1596.4-1996, September 15, 1996.	<input type="checkbox"/>	<input type="checkbox"/>									
	242.	"IEEE Standard for scalable Coherent Interface (SCI)", IEEE Std. 1596-1992, August 2, 1993.	<input type="checkbox"/>	<input type="checkbox"/>									
	243.	"Double Data Rate (DDR) SDRAM Specification", JEDEC Standard-JESD79D, January 2004.	<input type="checkbox"/>	<input type="checkbox"/>									
	244.	Llewellyn, et al., "WAM 1.1: A33Mb/s Data Synchronizing Phase-Locked-Loop Circuit", IEEE ISSCC Digest of Technical Papers, 1988, pg. 12-13, 276-277, February 17, 1988.	<input type="checkbox"/>	<input type="checkbox"/>									
	245.	Lu, et al., "A Novel CMOS Implementation of Double-Edge-Triggered Flip-Flops", IEEE Journal of Solid-State Circuits, Vol. 25, No. 4, pg. 1008-1010, August 1990.	<input type="checkbox"/>	<input type="checkbox"/>									
↓	246.	MacDonald, et al., "FAM 16.2: 200Mb Wafer Memory", IEEE IssCC, Digest of Technical Papers, 1989, pg. 240-241, 350, February 17, 1989.	<input type="checkbox"/>	<input type="checkbox"/>									
	247.	McGeady, "The i960CA SuperScalar Implementation of the 80960 Architecture", 1990 COMPCON Proceedings, pg. 232-240, 1990.	<input type="checkbox"/>	<input type="checkbox"/>									
/TN/	248.	Thorson, et al., "ECL Bus Controller Hits 266 Mbytes/s", Microprocessor Report, Vol. 4, No. 1, pg. 12-14, January 24, 1990.	<input type="checkbox"/>	<input type="checkbox"/>									
<b>EXAMINER SIGNATURE</b>		<b>DATE CONSIDERED</b>											
/Tan Nguyen/		05/31/2007											
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		<b>Filing Date</b>	November 20, 2003
		<b>First Named Inventor</b>	Michael Farnwald
		<b>Art Unit</b>	2827
		<b>Examiner Name</b>	Tan Nguyen
<b>Sheet</b>	17 of 18	<b>Attorney Docket Number</b>	57941.000062

**OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS**

*Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION	
			YES	NO
/TN/	249.	Nitta, et al., "SP 23.5: 1.6 GB/s Data-Rate 1 Gb Synchronous DRAM with Hierarchical Square-Shaped Memory Block and Distributed Bank Architecture", IEEE ISSCC Digest of Technical Papers, pg. 376-377, 477, February 10, 1996.	<input type="checkbox"/>	<input type="checkbox"/>
	250.	Pelgrom, et al., "A 32-kbit Variable-Length Shift Register for Digital Audio Application", IEEE Journal of Solid-State Circuits, Vol. SC-22, No. 3, pg. 415-422, June 1987.	<input type="checkbox"/>	<input type="checkbox"/>
	251.	Rau, et al., "The Cydra 5 Departmental Supercomputer Design Philosophies, Decisions, and Trade-offs", IEEE Computer, pg. 12-35, January 1989.	<input type="checkbox"/>	<input type="checkbox"/>
	252.	Saeki, et al., "SP 23.4: A 2.5 ns Clock Access 250MHz 256Mb SDRAM with a Synchronous Mirror Delay", IEEE ISSCC Digest of Technical Papers, pg. 374-375, 476, February 10, 1996.	<input type="checkbox"/>	<input type="checkbox"/>
	253.	UNISYS, "UNISYS Configurable DRAM Proposal", JEDEC 42.3 Meeting Minutes, December 16, 1988.	<input type="checkbox"/>	<input type="checkbox"/>
	254.	Bakka, et al., "SCI: Logical Level Proposals - Working Paper", January 6, 1980.	<input type="checkbox"/>	<input type="checkbox"/>
	255.	Kristiansen, et al., "Scalable Coherent Interface, February 1980.	<input type="checkbox"/>	<input type="checkbox"/>
↓	256.	Watanabe, et al., "A New CR-Delay Circuit Technology for High-Density and High-Speed DRAM's", IEEE Journal of Solid-State Circuits, Vol. 24, No. 4, pg. 905-910, August 1989.	<input type="checkbox"/>	<input type="checkbox"/>
/TN/	257.	Yoo, et al., "A 150 MHZ 8-Bank 256M Synchronous DRAM with Wave Pipelining Methods", IEEE ISSCC Digest of Technical Papers, pg. 250-251, 374, February 17, 1995.	<input type="checkbox"/>	<input type="checkbox"/>

EXAMINER SIGNATURE

/Tan Nguyen/

DATE CONSIDERED

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		<b>Filing Date</b> <b>November 20, 2003</b>	
		<b>First Named Inventor</b> <b>Michael Farnwald</b>	
		<b>Art Unit</b> <b>2827</b>	
		<b>Examiner Name</b> <b>Tan Nguyen</b>	
<b>Sheet</b>	<b>18 of 18</b>	<b>Attorney Docket Number</b> <b>57941.000062</b>	

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			YES	NO
/TN/	258.	European Search Report dated March 23, 2006 for European Patent No. 1 640 847, published May 31, 2006.	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
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			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
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			<input type="checkbox"/>	<input type="checkbox"/>

<b>EXAMINER SIGNATURE</b> /Tan Nguyen/	<b>DATE CONSIDERED</b> 05/31/2007
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**57941.000062**

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		<b>Application Number</b>		10/716,595	
		<b>Filing Date</b>		November 20, 2003	
		<b>First Named Inventor</b>		Michael Farmwald	
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		<b>Examiner Name</b>		Tan Nguyen	
<b>Sheet</b>	<b>3 of 5</b>	<b>Attorney Docket Number</b>		57941.000062	
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*Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION		
			YES	NO	
/TN/	4.	Hyundai, HY5DV651622, Rev. 0.9, published January 2000 ("Hynix-1")	<input type="checkbox"/>	<input type="checkbox"/>	
	5.	Hyundai, SDRAM Timing Diagram, Rev.1.2, published December 1999 ("Hynix-2")	<input type="checkbox"/>	<input type="checkbox"/>	
	6.	Hyundai, DDR SDRAM Device Operation, Rev. 0.2, published December 1998 ("Hynix-3")	<input type="checkbox"/>	<input type="checkbox"/>	
	7.	Claim Chart for Claims 1-5, 10, 12-16, 18-20, 23, 25-32, 35, 37, and 40-41 based on Park, with additional references to the JEDEC Standard	<input type="checkbox"/>	<input type="checkbox"/>	
	8.	Claim Chart for claims 1-5, 9-10, 12-16, 18-20, 23, 25-27, 30-32, 35, 37, and 40-41 based on the JEDEC Standard	<input type="checkbox"/>	<input type="checkbox"/>	
	9.	Claim Chart for claims 1-41 of the '916 patent based on the iAPX Manual, with additional reference to Rau, Yoshida, Olson, Johnson, Lofgren, and Grover	<input type="checkbox"/>	<input type="checkbox"/>	
	10.	Claim Chart for claims 1-41 of the '916 patent based on the Budde, with additional reference to Rau, Yoshida, Olson, Johnson, Lofgren, and Grover	<input type="checkbox"/>	<input type="checkbox"/>	
	11.	Patent Family Tree Chart	<input type="checkbox"/>	<input type="checkbox"/>	
	12.	File History of the '916 patent	<input type="checkbox"/>	<input type="checkbox"/>	
✓	13.	File History of U.S. Patent No. 6,452,863 ("the '863 parent patent") (Tab 1 identifies the original disclosure of the '863 parent patent, and Tab 2 identifies the remaining portions of the file history)	<input type="checkbox"/>	<input type="checkbox"/>	
/TN/	14.	Rambus Inc. v. Samsung Electronics Co., Ltd., et al., No. C05 02298 RMW (N. D. Cal. 2006), Preliminary Infringement Contentions	<input type="checkbox"/>	<input type="checkbox"/>	
<b>EXAMINER SIGNATURE</b> /Tan Nguyen/			<b>DATE CONSIDERED</b> 05/31/2007		
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60/02/06

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		Application Number	10/716,595
		Filing Date	November 20, 2003
		First Named Inventor	Michael Farmwald
		Art Unit	2827
		Examiner Name	Tan Nguyen
Sheet	4 of 5	Attorney Docket Number	57941.000062

## OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION	
			YES	NO
/TN/	15.	Samsung Electronics Co., Ltd., v. Rambus Inc., No. 3:05cv406 (E. D. Va. 2006), Memorandum Opinion filed July 18, 2006.	<input type="checkbox"/>	<input type="checkbox"/>
	16.	Hynix Semiconductor, Inc. et al. v. Rambus Inc., No. CV 00-20905 RMW (N. D. Cal. 2005), Joint Claim Construction and Prehearing Statement Pursuant to Patent Local Rule 4-3	<input type="checkbox"/>	<input type="checkbox"/>
	17.	Hynix Semiconductor, Inc. et al. v. Rambus Inc., No. CV 00-20905 RMW (N. D. Cal. 2005), Claim Construction Order filed Nov. 15, 2004.	<input type="checkbox"/>	<input type="checkbox"/>
	18.	Selected Excerpts from the Trial Transcript from Hynix Semiconductor, Inc. et al. v. Rambus Inc., No. CV 00-20905 RMW (N. D. Cal. 2005)	<input type="checkbox"/>	<input type="checkbox"/>
	19.	Rambus Inc. v. Infineon Technologies AG et al., No. 3:00cv524 (E. D. Vir. 2001), Memorandum Opinion	<input type="checkbox"/>	<input type="checkbox"/>
	20.	Rambus Inc. v. Infineon Technologies AG et al., 318 F.3d 1081 (Fed. Cir. 2003)	<input type="checkbox"/>	<input type="checkbox"/>
	21.	Waters, "Hynix Told to Pay Damages to Rambus", Financial Times, April 24, 2006.	<input type="checkbox"/>	<input type="checkbox"/>
	22.	Poletti, "Rambus wins victory from Supreme Court - Win could Lead to Success for Rambus' Other Lawsuits seeking Royalties", San Jose Mercury News, October 7, 2003.	<input type="checkbox"/>	<input type="checkbox"/>
	23.	Kanellos, "Future of memory market hangs on Rambus trials - It's the trial of the century, at least as far as the memory industry is concerned, CNET News.com, February 12, 2001, <a href="http://news.com.com/Future+of+memory+market+hangs+on+Rambus+trials/2100-1001_3-252404.html">http://news.com.com/Future+of+memory+market+hangs+on+Rambus+trials/2100-1001_3-252404.html</a>	<input type="checkbox"/>	<input type="checkbox"/>
✓	24.	In the Matter of Rambus, Inc., FTC Docket No. 9302 Opinion of the Commission	<input type="checkbox"/>	<input type="checkbox"/>
/TN/	25.	In the Matter of Rambus, Inc., FTC Docket No. 9302 Concurring Opinion of Commission Jon Leibowitz	<input type="checkbox"/>	<input type="checkbox"/>

EXAMINER SIGNATURE /Tan Nguyen/

DATE CONSIDERED 05/31/2007

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6/02/06

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>		Application Number	10/716,595
		Filing Date	November 20, 2003
		First Named Inventor	Michael Farmwald
		Art Unit	2827
		Examiner Name	Tan Nguyen
Sheet	5 of 5	Attorney Docket Number	57941.000062

## OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS

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			YES	NO
/TN/	26.	In the Matter of Rambus, Inc., FTC Docket No. 9302 Order Reversing and Vacating Initial Decision...	<input type="checkbox"/>	<input type="checkbox"/>
	27.	Rambus' Final Infringement Contentions in the Hynix Litigation	<input type="checkbox"/>	<input type="checkbox"/>
	28.	Exhibit A (accused products) to Rambus' Final Infringement Contentions	<input type="checkbox"/>	<input type="checkbox"/>
	29.	Exhibit P ('916 infringement chart) to Rambus' Final Infringement Contentions	<input type="checkbox"/>	<input type="checkbox"/>
	30.	Exhibit R (Exemplary data sheet) to Rambus' Final Infringement Contentions	<input type="checkbox"/>	<input type="checkbox"/>
	31.	Request for <i>Inter Partes</i> Reexamination under 35 U.S.C. §§ 311-318 for U.S. Patent No. 6,324,120.	<input type="checkbox"/>	<input type="checkbox"/>
↓	32.	Request for <i>Inter Partes</i> Reexamination under 35 U.S.C. §§ 311-318 for U.S. Patent No. 6,426,916.	<input type="checkbox"/>	<input type="checkbox"/>
/TN/	33.	Special Verdict Form filed April 24, 2006, in Hynix Semiconductor, Inc. et al. v. Rambus Inc., No. CV 00-20905 RMW (N. D. Cal. 2005)	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

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05/01/07

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		<b>Filing Date</b>	<b>November 20, 2003</b>
		<b>First Named Inventor</b>	<b>Michael FARWALD, et al.</b>
		<b>Art Unit</b>	<b>2827</b>
		<b>Examiner Name</b>	<b>Tan Nguyen</b>
<b>Sheet</b>	<b>2 of 3</b>	<b>Attorney Docket Number</b>	<b>57941.000062</b>

**FOREIGN PATENT DOCUMENTS**

*Examiner Initial	Cite No.	FOREIGN PATENT DOCUMENT		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	TRANSLATION	
		Country Code	Number-Kind Code (if known)				YES	NO
/TN/	2.	JP	S60-80193	05-08-1985	Hasegawa, et al.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
/TN/	3.	JP	S64-029951	01-31-1989	Kumagai		<input checked="" type="checkbox"/> English Abstract Only	<input type="checkbox"/>
/TN/	4.	JP	63-217452	09-09-1988	Saito		<input checked="" type="checkbox"/> Full English Translation	<input type="checkbox"/>
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05/01/07

<b>Substitute for form 1449/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		<b>Application Number</b>	<b>10/716,595</b>	
		<b>Filing Date</b>	<b>November 20, 2003</b>	
		<b>First Named Inventor</b>	<b>Michael FARWALD, et al.</b>	
		<b>Art Unit</b>	<b>2827</b>	
		<b>Examiner Name</b>	<b>Tan Nguyen</b>	
<b>Sheet</b>	<b>3 of 3</b>	<b>Attorney Docket Number</b>	<b>57941.000062</b>	
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			<b>YES</b>	<b>NO</b>
/TN/	5.	Hyundai, HY57V658020B, Data Sheet	<input type="checkbox"/>	<input type="checkbox"/>
/TN/	6.	Request for Inter Partes Reexamination under 35 U.S.C. §§ 311-318 for U.S. Patent No. 6,452,863	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
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Substitute for Form 1449/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Application Number	10/716,595
Filing Date	November 20, 2003
First Named Inventor	Michael Farmwald
Art Unit	2827
Examiner Name	Tan Nguyen
Attorney Docket Number	57941.000062

Sheet 3 of 5

## **OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS**

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/TN/	4.	Hyundai, HY5DV651622, Rev. 0.9, published January 2000 ("Hynix-1")	<input type="checkbox"/>	<input type="checkbox"/>
	5.	Hyundai, SDRAM Timing Diagram, Rev.1.2, published December 1999 ("Hynix-2")	<input type="checkbox"/>	<input type="checkbox"/>
	6.	Hyundai, DDR SDRAM Device Operation, Rev. 0.2, published December 1998 ("Hynix-3")	<input type="checkbox"/>	<input type="checkbox"/>
	7. #10	Claim Chart for Claims 1-5, 10, 12-16, 18-20, 23, 25-32, 35, 37, and 40-41 based on Park, with additional references to the JEDEC Standard, <i>NO DATE.</i>	<input type="checkbox"/>	<input type="checkbox"/>
	8. #11	Claim Chart for claims 1-5, 9-10, 12-16, 18-20, 23, 25-27, 30-32, 35, 37, and 40-41 based on the JEDEC Standard, <i>OCT 2000</i>	<input type="checkbox"/>	<input type="checkbox"/>
	9. #12	Claim Chart for claims 1-41 of the '916 patent based on the IAPX Manual, with additional reference to Rau, Yoshida, Olson, Johnson, Lofgren, and Grover, <i>NO DATE.</i>	<input type="checkbox"/>	<input type="checkbox"/>
	10. #17	Claim Chart for claims 1-41 of the '916 patent based on the Budde, with additional reference to Rau, Yoshida, Olson, Johnson, Lofgren, and Grover, <i>NO DATE.</i>	<input type="checkbox"/>	<input type="checkbox"/>
	11. #16	Patent Family Tree Chart, <i>NO DATE.</i>	<input type="checkbox"/>	<input type="checkbox"/>
	12. #10	File History of the '916 patent, <i>MAY 2005.</i>	<input type="checkbox"/>	<input type="checkbox"/>
✓	13. #6, 14	File History of U.S. Patent No. 6,452,863 ("the '863 parent patent") (Tab 1 identifies the original disclosure of the '863 parent patent, and Tab 2 identifies the remaining portions of the file history), <i>NO DATE.</i>	<input type="checkbox"/>	<input type="checkbox"/>
/TN/	14. #8	Rambus Inc. v. Samsung Electronics Co., Ltd., et al., No. C05 02298 RMW (N. D. Cal. 2006), Preliminary Infringement Contentions	<input type="checkbox"/>	<input type="checkbox"/>

EXAMINER SIGNATURE /Tan Nguyen/

DATE CONSIDERED 05/31/2007

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

62/02/06

Substitute for form 1449/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Application Number	10/716,595
Filing Date	November 20, 2003
First Named Inventor	Michael Farmwald
Art Unit	2827
Examiner Name	Tan Nguyen
Attorney Docket Number	57941.000062

Sheet 4 of 5

## **OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION	
			YES	NO
/TN/	15.	Samsung Electronics Co., Ltd. v. Rambus Inc., No. 8:05cv406 (E. D. Va. 2006), Memorandum Opinion filed July 18, 2006.	<input type="checkbox"/>	<input type="checkbox"/>
	16.	Hynix Semiconductor, Inc. et al. v. Rambus Inc., No. CV 00-20905 RMW (N. D. Cal. 2005), Joint Claim Construction and Prehearing Statement Pursuant to Patent Local Rule 4-3	<input type="checkbox"/>	<input type="checkbox"/>
	17.	Hynix Semiconductor, Inc. et al. v. Rambus Inc., No. CV 00-20905 RMW (N. D. Cal. 2005), Claim Construction Order filed Nov. 15, 2004.	<input type="checkbox"/>	<input type="checkbox"/>
	18.	Selected Excerpts from the Trial Transcript from Hynix Semiconductor, Inc. et al. v. Rambus Inc., No. CV 00-20905 RMW (N. D. Cal. 2005)	<input type="checkbox"/>	<input type="checkbox"/>
	19.	Rambus Inc. v. Infineon Technologies AG et al., No. 3:00cv524 (E. D. Vir. 2001), Memorandum Opinion	<input type="checkbox"/>	<input type="checkbox"/>
	20.	Rambus Inc. v. Infineon Technologies AG et al., 318 F.3d 1081 (Fed. Cir. 2003)	<input type="checkbox"/>	<input type="checkbox"/>
	21.	Waters, "Hynix Told to Pay Damages to Rambus", Financial Times, April 24, 2006.	<input type="checkbox"/>	<input type="checkbox"/>
	22.	Poletti, "Rambus wins victory from Supreme Court - Win could Lead to Success for Rambus' Other Lawsuits seeking Royalties", San Jose Mercury News, October 7, 2003.	<input type="checkbox"/>	<input type="checkbox"/>
	23.	Kanellos, "Future of memory market hangs on Rambus trials - It's the trial of the century, at least as far as the memory industry is concerned, CNET News.com, February 12, 2001, <a href="http://news.com.com/Future+of+memory+market+hangs+on+Rambus+trials/2100-1001_3-252404.html">http://news.com.com/Future+of+memory+market+hangs+on+Rambus+trials/2100-1001_3-252404.html</a>	<input type="checkbox"/>	<input type="checkbox"/>
✓	24. 2134	In the Matter of Rambus, Inc., FTC Docket No. 9302 Opinion of the Commission, NO DATE.	<input type="checkbox"/>	<input type="checkbox"/>
/TN/	25. 2129	In the Matter of Rambus, Inc., FTC Docket No. 9302 Concurring Opinion of Commission Jon Leibowitz, NO DATE.	<input type="checkbox"/>	<input type="checkbox"/>

EXAMINER SIGNATURE /Tan Nguyen/ DATE CONSIDERED 05/31/2007

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Substitute for form 1449/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Application Number	10/716,595
Filing Date	November 20, 2003
First Named Inventor	Michael Farmwald
Art Unit	2827
Examiner Name	Tan Nguyen

Sheet 5 of 5

Attorney Docket Number 57941.000062

## **OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	TRANSLATION	
			YES	NO
/TN/	26. #128	In the Matter of Rambus, Inc., FTC Docket No. 9302 Order Reversing and Vacating Initial Decision..., <i>JULY 2006</i>	<input type="checkbox"/>	<input type="checkbox"/>
	27. #27	Rambus' Final Infringement Contentions in the Hynix Litigation, <i>OSC 2004.</i>	<input type="checkbox"/>	<input type="checkbox"/>
	28. #26	Exhibit A (accused products) to Rambus' Final Infringement Contentions, <i>NO DATE.</i>	<input type="checkbox"/>	<input type="checkbox"/>
	29. #25	Exhibit P ('916 infringement chart) to Rambus' Final Infringement Contentions, <i>NO DATE.</i>	<input type="checkbox"/>	<input type="checkbox"/>
	30. #24	Exhibit R (Exemplary data sheet) to Rambus' Final Infringement Contentions, <i>NO DATE.</i>	<input type="checkbox"/>	<input type="checkbox"/>
	31.	Request for <i>Inter Partes</i> Reexamination under 35 U.S.C. §§ 311-318 for U.S. Patent No. 6,324,120, <i>SEP. 2006.</i>	<input type="checkbox"/>	<input type="checkbox"/>
↓	32.	Request for <i>Inter Partes</i> Reexamination under 35 U.S.C. §§ 311-318 for U.S. Patent No. 6,426,916, <i>AUG 2006.</i>	<input type="checkbox"/>	<input type="checkbox"/>
/TN/	33.	Special Verdict Form filed April 24, 2006, in Hynix Semiconductor, Inc. et al. v. Rambus Inc., No. CV 00-20905 RMW (N. D. Cal. 2005)	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

EXAMINER SIGNATURE /Tan Nguyen/

DATE CONSIDERED 05/31/2007

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05/01/07

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# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

<b>Application Number</b>	10/716,595
<b>Filing Date</b>	November 20, 2003
<b>First Named Inventor</b>	Michael FARWALD, et al.
<b>Art Unit</b>	2827
<b>Examiner Name</b>	Tan Nguyen
<b>Attorney Docket Number</b>	57941.000062

**Sheet** 3 of 3

## **OTHER DOCUMENTS - NON-PATENT LITERATURE DOCUMENTS**

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			YES	NO
/TN/	5.	Hyundai, HY57V658020B, Data Sheet, Nov 1996.	<input type="checkbox"/>	<input type="checkbox"/>
/TN/	6.	Request for Inter Partes Reexamination under 35 U.S.C. §§ 311-318 for U.S. Patent No. 6,452,863, APR 2007.	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
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			<input type="checkbox"/>	<input type="checkbox"/>
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			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>

**EXAMINER SIGNATURE** /Tan Nguyen/

**DATE CONSIDERED** 05/31/2007

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FEB 06 2004  
U.S. PATENT & TRADEMARK OFFICE

PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. 57941.000062	SERIAL NUMBER 10/716,595
	APPLICANT(S) MICHAEL FARMWALD ET AL.	
	FILING DATE November 20, 2003	GROUP ART UNIT Unassigned 2827

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE
/TN/	19.	4,845,670	Jul. 4, 1989	Nishimoto et al.			
/TN/	20.	4,509,142	Apr. 2, 1985	Childers			
/TN/	21.	4,685,088	Aug. 4, 1987	Ianucci			

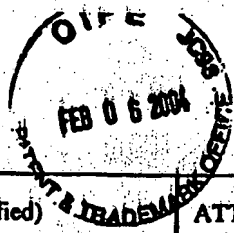
FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
/TN/	22.	0 246 767	April 28, 1987	EPO			
/TN/	23.	0 334 552	Mar. 16, 1989	EPO			
/TN/	24.	0 276 871	Jan. 29, 1988	EPO			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/TN/	25.	European Search Report for EPO Patent Application No. 00 101 1832, <i>NO DATE!</i>
	26.	European Search Report for EPO Patent Application No. 89 30 2613, <i>NO DATE!</i>
	27.	Z. Amitai, "New System Architectures for DRAM Control and Error Correction", Monolithic Memories Inc., Electro/87 and Mini/Mico Northeast: Focusing on the OEM Conference Record, pp. 1132, 4/31-3, (April 1987)
	28.	N. Siddique, "100-MHz DRAM Controller Sparks Multiprocessor Designs", Electronic Design, pp. 138-141, (Sept 1986)
	29.	H. Kuriyama et al., "A 4-Mbit CMOS SRAM WITH 8-NS SERIAL ACCESS TIME", IEEE Symposium On VLSI Circuits Digest Of Technical Papers, pp. 51-52, (June 1990)
	30.	A. Fielder et al., "A 3 NS 1K X 4 STATIC SELF-TIMED GaAs RAM", IEEE Gallium Arsenide Integrated Circuit Symposium Technical Digest, pp. 67-70, (Nov. 1988)
/TN/	31.	JEDEC Standard No. 21C, <i>FEB 2004.</i>

EXAMINER /Tan Nguyen/	DATE CONSIDERED 06/07/2007
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PTO-1449 (Modified)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. 57941.000062	SERIAL NUMBER 10/716,595
	APPLICANT(S) MICHAEL FARMWALD ET AL.	
	FILING DATE November 20, 2003	GROUP ART UNIT Unassigned

## U.S. PATENT DOCUMENTS

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/TN/	88.	4,205,373	May 27, 1980	Shah et al.			
	89.	4,905,201	Feb. 27, 1990	Ohira et al.			
	90.	3,691,534	09/12/72	Veradi, et. al			
	91.	3,771,145	11/06/73	Wiener			
	92.	4,536,795	08/20/85	Hirota, et. al			
	93.	4,629,909	12/16/86	Cameron			
	94.	4,631,659	12/23/86	Hayne, et. al			
	95.	4,858,113	08/15/89	Saccardi			
	96.	4,499,536	02/12/85	Gemma et al.			
/TN/	97.	4,648,102	03/03/87	Riso, et. al			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
/TN/	98.	EP 0424774	05/02/91	EPO			
/TN/	99.	EP 0449052	03/29/90	EPO			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/TN/	100.	European Search Report for EPO Patent Application No. 00 10 0018, NO DATED
/TN/	101.	European Search Report for EPO Patent Application No. 00 10 822, NO DATED
/TN/	102.	Takasugi, A. et al., "A Data-Transfer Architecture for Fast Multi-Bit Serial Access Mode DRAM," 11 <sup>th</sup> European Solid State Circuits Conference, Toulouse, France pp.161-165 (Sep. 1985)
/TN/	103.	Amital, Z., "Burst Mode Memories Improve Cache Design," WESCON/90 Conference Record, pp. 29-32 (Nov. 1990)

EXAMINER	/Tan Nguyen/	DATE CONSIDERED	06/07/2007
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TRADEMARK OFFICE

PTO-1449 (Modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY. DOCKET NO. 57941.000062	SERIAL NUMBER 10/716,595
	APPLICANT(S) MICHAEL FARMWALD ET AL.	
	FILING DATE November 20, 2003	GROUP ART UNIT Unassigned

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

/TN/	138.	Graham, Andy and Stewart Sando, "Pipelined Static RAM Endows Cache Memories with 1-ns Speed," Electronic Design, pp. 157-170 (Dec. 1984)
	139.	Pinkham, Raymond, "A High Speed Dual Port Memory with Simultaneous Serial and Random Mode Access for Video Applications," IEEE Journal of Solid-State Circuits, Vol. SC-19, No. 6, pp. 999-1007 (Dec. 1984)
	140.	Ishimoto, S. et al., "A 256K Dual Port Memory," ISSCC Digest of Technical Papers, p. 38-39 (Feb. 1985)
	141.	Iqbal, Mohammad Shakaib, "Internally Timed RAMs Build Fast Writable Control Stores," Electronic Design, pp. 93-96 (August 25, 1988)
	142.	Schnaitter, William M. et al., "A 0.5-GHz CMOS Digital RF Memory Chip," IEEE Journal of Solid-State Circuits, vol. SC-21, no. 5, pp. 720-726 (Oct. 1986)
	143.	Bursky, Dave, "Advanced Self-Timed SRAM Pares Access Time to 5 ns," Electronic Design, pp. 145-147 (Feb. 22, 1990)
	144.	Tomoji Takada et al., "A Video Codec LSI for High-Definition TV Systems with One-Transistor DRAM Line Memories," IEEE Journal of Solid-State Circuits, Vol. 24, No. 6, pp. 1656-1659 (Dec. 1989)
	145.	Robert J. Lodi et al., "MNOS-BORAM Memory Characteristics," IEEE Journal of Solid-State Circuits, vol. SC-11, No. 5, pp. 622-631 (Oct. 1976)
	146.	Gregory Uvieghara et al., "An On-Chip Smart Memory for a Data-Flow CPU," IEEE Journal of Solid-State Circuits, vol. 25, No. 1, pp. 84-89 (Feb. 1990)
	147.	Ray Pinkham et al., "A 128Kx8 70-MHz Multiport Video RAM with Auto Register Reload and 8x4 WRITE Feature," IEEE Journal of Solid State Circuits, vol. 23, no. 3, pp. 1133-1139 (Oct. 1988)
	148.	Graham, Andy and Stewart Sando, "Pipelined Static RAM Endows Cache Memories with 1-ns Speed," Electronic Design pp. 157-170, DEC 1984, 11
↓	149.	Hans-Jurgen Mattausch et al., "A Memory-Based High-Speed Digital Delay Line with a Large Adjustable Length," IEEE Journal of Solid-State Circuits, vol. 23, no. 1, pp. 105-110 (Feb. 1988)
/TN/	150.	Kanopoulos, Nick and Jill H. Hallenbeck, "A First-In, First-Out Memory for Signal Processing Applications," IEEE Transactions on Circuits and Systems, Vol. CAS-33, No. 5, pp. 556-558 (May 1986)

EXAMINER	/Tan Nguyen/	DATE CONSIDERED	06/07/2007
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FORM PTO-1449  
(REV. 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.:

57941.000062

SERIAL NO.:

10716,595

INVENTOR'S NAME:

Michael FARMWALD et al.

EXAMINER:

Tan Nguyen

## LIST OF MATERIALS CITED BY APPLICANT

FILING DATE:

November 20, 2003

GROUP:

2818 2827

(Use several sheets if necessary)

## OTHER MATERIALS (Including Author, Title, Date, Pertinent Pages, Etc.)

1. Copy of Hynix's Amended Supplemental Revised Preliminary Invalidity Contentions, Dec 2004.
2. PATTERSON et al., Computer Architecture A Quantitative Approach, 1990.
3. JOHNSON et al., Session XI: High Speed Logic; THAM 11.3: A Variable Delay Line Phase Loop for CPU-Coprocessor Synchronization, ISSCC 88, Thursday, February 18, 1988, Continental Ballroom 6, 10:00 AM, pp. 142-143, 334 and 336
4. JEONG et al., Design of PLL-Based Clock Generation Circuits, IEEE Journal of Solid-State Circuits, Vol. SC-22, No. 2, April 1987, pp. 255-261
5. GigaBit Logic, GaAs IC Data Book & Designer's Guide, May 1988, pp. 1.1-10.3
6. Intel, Iapx 432 Interconnect Architecture Reference Manual, 1982

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